# **Contribution Report**

Name: M Sai Kiran (Team member)

Mail-ID: 21311a6621@sreenidhi.edu.in

## Specific tasks and responsibilities :

- Interface Development using Streamlit:
  - ➤ Built the user interface for the Parking Management System using Streamlit for deployment.
- Data Integration:
  - > Performed data integration methods to ensure seamless data handling and visualization.
- \* Code sections written or major contribution to the project

:

#### **Streamlit Interface for Parking Management System**

Developed a Streamlit application to facilitate user interaction with the Parking Management System. Below are key functionalities and methods employed:

- Reading and Saving Data:
  - Utilized Pandas for reading and saving vehicle data to/from a CSV file.
- Cost Calculation:

➤ Implemented a method to calculate parking costs based on entry and exit times.

#### • User Interface Design:

- o Designed and structured the Streamlit interface to include:
  - ➤ Home page with welcome message and system overview.
  - ➤ Video upload page for capturing vehicle entry data.
  - > Dataset view page to display stored vehicle records.
  - ➤ Slot availability section for real-time parking slot updates.

## Any challenges faced and how they were overcome :

#### • File Upload Handling:

> Managed the challenge of uploading and displaying videos and images effectively.

#### • Data Integration:

➤ Successfully integrated the dynamically saved dataset into the view for parking history.

#### • Alignment Issues:

- > Addressed challenges related to aligning UI components properly across different screen sizes.
- > Preprocessed data for better accuracy.

## Collaboration with team members :

#### 1. Task Division:

➤ Divided the project so each member worked on parts aligned with their strengths.

### 2. Regular Communication:

➤ Maintained regular updates and communication among team members.

### 2. Idea Sharing:

> Provided insights and ideas for generating better results.